



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 05-05-2023

ASSISTANT EXECUTIVE ENGINEER
KODIGEHALI SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "IMPROVEMENTS TO ROADS AND DRAINS
IN YASHODANAGAR AND SURROUNDING AREAS IN WARD NO.11,
BYATARAYANAPURA."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/167/2022-23

2. Job code: 011-23-000009

We are herewith forwarding to M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda,
No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-
560024. First and Final bill duly verified and certified that the Work is satisfactory and for a
Gross Value of Rs.19,97,000.00 /- (Rs. Nineteen Lakhs Ninety Seven Thousand Only).

Thanking you,

Yours faithfully,

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



For Civil Pro

R RUDRAPRASAD
AUTHORIZED SIGNATORY
CIVIL PRO



QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	88.2	10	10

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-05-22-29 Date: 20-03-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurag Enterprises, Prop. Sri.N.A Rahul Gowda, No.6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5): 1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
Date of test : 17-03-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.14	—
2	Fineness by Air permeability method (m ² /kg, Min)	281.6	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



FOR CIVIL Pro.

R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-05-22-29 Date: 14-04-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 17-03-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-05-22-29 Date: 20-03-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 16-03-23
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 16-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore





TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2023-05-22-29

Date: 20-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—

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Technical Manager

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****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-05-22-29 Date: 20-03-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-23
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 16-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore





TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2023-05-22-29

Date: 20-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
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End of Report*



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Technical Manager



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-05-22-29 Date: 20-03-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura

Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024

Customer's Reference : BBMP/EE/BTP/WO/167/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 16-03-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore





TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-05-22-29

Date: 20-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	9.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Assistant Executive Engineer
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2023-05-22-29 Date: 17-03-23
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-23
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 16-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Kodigehalli Sub Division
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-05-22-29 Date: 03-04-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura

Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024

Customer's Reference : BBMP/EE/BTP/WO/167/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 29/03/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.51	100.48	1.116	4718	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.49	100.52	1.122	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.60	100.51	1.118	4729	81.5	17.2	16.0	20.0

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Date.....
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 04/04/2023
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
 Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No.6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
 Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 30-03-23
 Customer ID : Drain Bottom Raft Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	150.51 X 150.99 X 150.30	22725	8.554	411.9	18.1	18.5
2	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	150.85 X 149.35 X 149.85	22528	8.878	422.4	18.7	
3	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	149.54 X 151.40 X 151.92	22640	8.439	420.7	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 25/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 25/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	149.60 X 150.84 X 150.05	22565	8.873	526.9	23.4	23.0
2	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	150.76 X 151.00 X 151.16	22764	8.570	513.0	22.5	
3	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	151.59 X 151.80 X 150.09	23012	8.927	534.2	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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R. RUDRAPRASAD
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 04/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	150.56 X 151.51 X 150.33	22811	8.827	412.3	18.1	18.3
2	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	151.73 X 149.32 X 151.64	22656	8.673	409.9	18.1	
3	Drain Bottom Raft Concrete	M20	28/03/2023	04/04/2023	150.82 X 149.36 X 149.21	22526	8.476	421.6	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/04/2023

Lab ID : CP-2023-05-22-29
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	150.33 X 151.81 X 151.75	22823	8.763	532.5	23.3	23.2
2	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	150.80 X 150.33 X 149.35	22670	8.312	511.3	22.6	
3	Drain Bottom Raft Concrete	M20	28/03/2023	25/04/2023	150.09 X 151.80 X 150.62	22784	8.832	537.8	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 07/04/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura

Agency : M/s Anurath Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024

Customer's Reference : BBMP/EE/BTP/WO/167/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.39 X 150.24 X 149.43	22746	8.722	419.2	18.4	18.4
2	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	149.85 X 151.81 X 150.49	22748	8.265	424.0	18.6	
3	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.68 X 151.99 X 151.70	23053	8.433	416.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 28/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-04-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	151.32 X 150.03 X 149.64	22703	8.340	528.7	23.3	23.0
2	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	150.57 X 149.78 X 149.38	22552	8.694	512.1	22.7	
3	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	150.75 X 151.99 X 150.89	22913	8.180	528.1	23.0	

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 07/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurag Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-04-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.24 X 150.67 X 151.39	22787	8.790	425.9	18.7	18.6
2	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	150.43 X 149.82 X 149.50	22537	8.509	424.9	18.9	
3	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.17 X 151.85 X 150.72	22955	8.966	418.4	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 28/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No.6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-04-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	149.69 X 149.43 X 150.57	22367	8.878	535.1	23.9	23.2
2	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	150.02 X 151.80 X 150.95	22772	8.355	507.9	22.3	
3	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	150.99 X 151.13 X 149.15	22820	8.826	531.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 07/04/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura

Agency : M/s Anurah Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024

Customer's Reference : BBMP/EE/BTP/WO/167/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 07/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.39 X 151.78 X 151.90	22979	8.481	415.8	18.1	18.4
2	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	149.09 X 151.47 X 149.68	22584	8.418	424.9	18.8	
3	Drain Side Wall Concrete	M20	31/03/2023	07/04/2023	151.74 X 149.24 X 150.95	22646	8.734	417.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-22-29 Date: 28/04/2023
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains in Yashodanagara and surrounding areas in Ward No.11, Byatarayanapura
Agency : M/s Anurag Enterprises, Prop. Sri.N.A Rahul Gowda, No:6, 1st Main, Vinayaka Layout, Venkateshwara Temple, Hebbal, Kempapura Bangalore-560024
Customer's Reference : BBMP/EE/BTP/WO/167/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-04-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	149.76 X 150.08 X 149.29	22476	8.871	518.8	23.1	22.7
2	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	150.07 X 150.58 X 149.47	22597	8.856	497.5	22.0	
3	Drain Side Wall Concrete	M20	31/03/2023	28/04/2023	149.90 X 150.73 X 151.95	22595	8.761	521.7	23.1	

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